

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Sharon L. Morris, R.N., and Dean E. Morris

DATE: October 4, 1996

SERIAL NO: 08/286,413 GROUP ART UNIT: 2111

FILED: August 5, 1994 EXAMINER: R. Gibson

FOR: "Automatic Surgical Sponge Counter and Blood Loss
Determination System"

ATTORNEY DOCKET NO.: A94087US (51929/1)

**DECLARATION OF ALEX MACARIO MD AND JOHN
G. BROCK-UTNE MD UNDER 37 C.F.R. § 1.132**

Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

We, the undersigned, hereby declare that we are familiar with the above-referenced invention as claimed in the claims presented in the Rule 116 Response dated September 24, 1996 filed in the above-referenced patent application.

We are academic anesthesiologists and have been working in the operating room suite for over 30 years combined. We teach residents and medical students, develop research projects, and provide clinical care. During our careers we have provided anesthesia for thousands of patients including sick neonates to cardiac surgery patients. One of our research interests has been how to educate practitioners about accurate blood loss determination. We have published data in the peer reviewed literature showing that even experienced physicians are

significantly inaccurate when trying to estimate the amount of blood lost during surgery. Unfortunately, there is no simple, risk free technology that accurately quantifies blood loss on sponges. The above-referenced invention attempts to solve the need for correct blood loss estimates which is particularly important for decision making regarding transfusion therapy.

The undersigned hereby declare that all statements made of our own knowledge are true and that all statements made on information and belief are believed to be true, and that this statement is made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

11/6/96

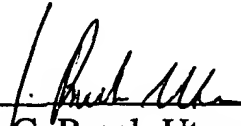
Date



Alex Macario MD
Assistant Professor of Anesthesia
Stanford University Medical Center
Stanford, CA 94305

11/6/96

Date



John G. Brock-Utne MD PhD
Professor of Anesthesia
Stanford University Medical Center
Stanford, CA 94305

51929001.DEC/sn

Curriculum vitae

Alex Macario M.D., M.B.A

I. PERSONAL DATA

Office Address

Department of Anesthesia
Stanford University School of Medicine
Stanford, California 94305-5115
phone - (415) 723-6411
fax - (415) 725-8544
email - macario_a@hosp.stanford.edu

Home Address

810 Tolman Drive
Stanford CA 94305
phone - (415) 813-1213

Social Security Number 036 - 44 - 0540
Marital Status wife - Susan; children - Samantha, Kevin
Date of Birth October 25, 1964

II. EDUCATION

M.D.	University of Rochester, School of Medicine and Dentistry Rochester, NY <i>With Distinction in Research</i>	1986-1990
M.B.A.	University of Rochester, Simon Graduate School of Business Administration Rochester, NY Major: Health Care Organizations and Markets	1985-1988
B.A.	University of Rochester, College of Arts and Sciences Rochester, NY <i>Sociology (Summa Cum Laude)</i>	1982-1986

III. POSTDOCTORAL TRAINING

Research Fellow, Health Services Research Departments of Anesthesiology and Health Research and Policy, Stanford University School of Medicine, Stanford, CA	1994-1995
Chief Resident, Department of Anesthesiology Stanford University Medical Center, Stanford, CA	1993-1994
Resident, Department of Anesthesiology Stanford University Medical Center, Stanford, CA	1991-1993

Intern, Department of Internal Medicine University of Pennsylvania, The Graduate Hospital, Philadelphia , PA	1990-1991
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IV. ACADEMIC APPOINTMENTS

Assistant Professor, Department of Anesthesiology Assistant Professor(courtesy), Department of Health Policy and Research Stanford University School of Medicine, Stanford, CA	9/1/96-
Acting Assistant Professor, Department of Anesthesiology Stanford University School of Medicine, Stanford, CA	7/1/96-8/30/97
Clinical Assistant Professor, Department of Anesthesiology Stanford University School of Medicine, Stanford, CA	7/1/95-6/30/96

V. CERTIFICATION and LICENSURE

California medical license # A050514	1991
Diplomate, American Board of Anesthesiology # 25578	1995

VI. HONORS and AWARDS

American Society of Anesthesiology Resident Research Essay - Contest - Third Prize	1995
Chief Resident in Anesthesia	1994
Valdes - Dapena Prize(The Graduate Hospital)	1991
Joseph C. Wilson Scholar	1982-1987
Tuition Scholarship(Business School)	1987-1988
Phi Beta Kappa	1986
College Graduation Speaker	1986
Rigby - Wile Prize in Biology	1985

VII. PROFESSIONAL ACTIVITIES

Hospital Appointments

Staff Physician, Department of Anesthesiology Stanford University Hospital & L. S. Packard Children's Hospital, Stanford CA	1995-1996
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Stanford Health Services

Operations Improvement - Operating Room Task Force	1995
Anesthesia Care Review and Risk Management Committee	1994-present
Clinical Pathway Committee for Total Knee Replacement	1994-present

Teaching(University)

Co-Director, Fellowship in the Management of Perioperative Services	1995-present
Faculty advisor for 1-2 anesthesia residents/year	1995-present
Developed and implemented:	
Seminar Series for Fellowship	1995-present
Health Services Research Bimonthly Journal Club	1994-95
Management of the Difficult Airway: Anesthesia and Emergency Medicine Seminar Series	1993-94

Regional and National Committee Appointments

California Society of Anesthesiology, Committee on Legislative and Practice Affairs	1996-1997
American Society of Anesthesiologists, Committee on Standards of Care	1993-1994
California Society of Anesthesiology, Committee on Governmental Affairs	1992-1994
American College of Physician Executives, Committee on Outcomes	1992-1994

University Committee Appointments

Admissions Panel, Mbedical school	1996-
Alwin C. Rambar Award Advisory Committee	1993-1994
Committee on Graduate Medical Education, Stanford University Hospital	1993-1994
Education Committee, Department of Anesthesia	1993-1994

Medical and Scientific Organizations

Association of Anesthesia Clinical Directors	1995-present
American College of Physician Executives	1992-present
California Medical Association	1991-present
California Society of Anesthesia	1991-present
American Society of Anesthesiology	1991-present
International Anesthesia Research Society	1991-present
American Medical Association	1990-present

Editorial Service

Consultant reviewer , Journal of Clinical Anesthesia	1995-present
Consultant reviewer, Anesthesiology	1995-present

Grant Support

FDA Phase 3 Clinical trial for Dexmedetomidine Co-investigator	1/1/96-1/1/97
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VIII. INVITED PRESENTATIONS

Know Your Costs American Society of Anesthesiology, New Orleans, Louisiana	1996
Hypothermia and Outcome in Surgical Patients Bay Area Post Anesthesia Care Unit Nurses Association, Palo Alto, CA	1996
What Does Anesthesia Really Cost? Association of Anesthesia Clinical Directors, Atlanta, Georgia	1995
Analysis of Hospital Costs and Charges for Inpatient Surgical Care. American Society of Anesthesiology, Atlanta, Georgia	1995
Pain Outcomes in Patients Undergoing Thoracotomy International Anesthesia Research Society, Honolulu, Hawaii	1995
Volume and Distribution of Inpatient Pediatric Anesthetics: Implications for Policy and Credentialing. Western Anesthesia Resident's Conference, Seattle, Washington	1994
Neuromuscular Blockade in Pediatric Anesthesia Children's Hospital, Saigon, Vietnam	1994
Spinal Versus Epidural Anesthesia for Cesarean Section: Economic Implications. American Society of Anesthesiology, Washington, D.C.	1993
Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical Gauze Sponges. International Anesthesia Research Society, San Diego	1993
Esophageal Stethoscopes: Is There An Acoustic Difference Between the 12, 18, and 24F Sizes? Western Anesthesia Resident's Conference, Salt Lake City	1992

IX. BIBLIOGRAPHY

Original Publications(refereed journals)

1. **Macario A.** Intrauterine Exposure To Cocaine - A Case Report and Current Thinking. *The Journal of the University of Rochester Medical Center* 1:28-30, 1989
2. **Macario A, Roizen M, Thisted R, Kim S, Orkin F, and Phelps C.** Reassessment of Preoperative Laboratory Testing Has Changed The Test-Ordering Patterns of Physicians. *Surgery, Gynecology, and Obstetrics* 175:539-547, 1992
3. **Riley E, Cohen S, Macario A, Desai J, Ratner E.** Spinal Versus Epidural Anesthesia for Cesarean Section: Comparison of Time Efficiency, Costs, Charges, and Complications. *Anesthesia and Analgesia* 80: 709-712, 1995
4. **Macario A, Chang P, Stempel D, Brock-Utne J.** A Cost Analysis of the Laryngeal Mask Airway For Adult Elective Outpatient Surgery. *Anesthesiology* 83:250-257, 1995
5. **Macario A, Hackel A, Gregory G, Forseth D.** The Demographics of Inpatient Pediatric Anesthesia Practice: Implications for Performance Based Credentialing. *Journal of Clinical Anesthesia* 7:507-511, 1995
6. **Brodsky J, Macario A, Cannon W, Mark J .** "Blind" Placement of Plastic Left Double-Lumen Tubes. *Anaesthesia and Intensive Care* 23:583-586, 1995
7. **Gaeta R, Macario A, Brodsky J, Brock-Utne J, Mark J.** Pain Outcomes After Thoracotomy: Lumbar Epidural Hydromorphone Versus Intrapleural Bupivacaine. *Journal of Cardiothoracic and Vascular Anesthesia* 9:534-537, 1995
8. **Macario A, Vitez T, Dunn B, McDonald T.** What Does Perioperative Care Really Cost? Analysis of Hospital Costs and Charges for Inpatient Surgical Care. *Anesthesiology* 83:1138-1144, 1995
9. **Brodsky J, Macario A, Mark J.** Tracheal Diameter Predicts Double Lumen Tube Size - A Method For Selecting Left Double-Lumen Tubes. *Anesthesia and Analgesia* 82:861-864, 1996
10. **Macario A, Vitez T, Dunn B, McDonald T, Brown B.** Hospital costs and severity of illness in three types of elective surgery. *Anesthesiology* (in press), 1996
11. **Vitez T, Wada D, Macario A.** Fuzzy Logic: Theory & Medical Applications. *Journal of Cardiothoracic and Vascular Anesthesia* 10:800-808, 1996

12. **Macario A**, Brock-Utne J, Dillingham M, Fanton G. Postoperative Epidural Saline Shortens PACU Stay For Knee Arthroscopy Patients. *Anesthesia and Analgesia*, (in press) 1996

Books

Macario A, Lang A(editors): Health Economics and Practice Management in Anesthesia, International Anesthesia Clinics, Boston, Little Brown & Company, Fall, 1995

Book Chapters

1. **Macario A**. Defining Value in Health Care: Outcomes. in **Macario A**, Lang A(eds): Health Economics and Practice Management in Anesthesia, *International Anesthesia Clinics*, 33:15-31, Little Brown & Company, Boston, Fall 1995
2. **Macario A**, Vitez T. Changing The Way Physicians Practice: An Important Step Toward Cost-efficient Clinical Practice: in Mailhot C, Slezak L(eds): *Management Training for Today's Operating Room*, 2:3-17, Medcom Inc, Cypress CA, 1996
3. Garman J, **Macario A**. Computers: A Practical Guide for Anesthesiologists. in Lake C, Rice L, Sperry R(eds): *Advances in Anesthesia(in press)*, Mosby - Year Book Inc., St. Louis, 1996
4. **Macario A**. Principles of cost accounting and costing a project.(in preparation) in Kingston H, Jones R(eds): *Business Skills for Health Care Providers*. Chapman & Hall Publishers, New York, 1996
5. Feeley T, **Macario A**. The post anesthesia care unit. In Miller R.(editor): *Anesthesia*, - 5th edition, Churchill Livingstone, NY, NY, 1996(in preparation).

Invited Editorials

1. Dexter F, **Macario A**. Application of information systems to operating room scheduling *Anesthesiology*(in press), 1996
2. Fisher D, **Macario A**. Economics of anesthesia practice: a call to arms. *Anesthesiology*(in press), 1996

Letters to Editor

1. **Macario A**, Brock-Utne J. Elimination of 12 and 24 French Esophageal Stethoscopes From Anesthetic Practice(An Attempt at Cost Containment). *Anesthesia and Analgesia* 79:393, 1994
2. **Macario A**. Costs of Inhaled Anesthetics. *Anesthesiology* 80:1405-1406, 1994

3. **Macario A, Brock-Utne J.** Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical Gauze Sponges. *Canadian Journal of Anesthesia* 41:1017-1018, 1994
4. **Macario A.** A Health Policy Perspective on Costs of Short-Term Anesthesia Services. *Journal of Clinical Anesthesia* 7:175, 1995
5. **Brodsky J, Macario A.** Modified Bronchocath Double-Lumen Tube. *Journal of Cardiothoracic and Vascular Anesthesia* 9:784-788, 1995
6. **Macario A, Ronquillo R, Brose W, Gaeta R.** Improved Outcome With a Continuous Infusion of Ondansetron for Intractable Nausea and Vomiting. *Anesthesia and Analgesia* 1996;83:194-195, 1996
7. **Macario A.** Modeling the cost-effectiveness of laparoscopic assisted vaginal hysterectomy. *NEJM* (submitted)

Refereed Abstracts

1. **Roizen M, Macario A, Thisted R, Sabnis L, Orkin F, and Phelps C.** A Tale of Three Cities - Has Reassessment of Preoperative Test Value Changed Physician Test-Ordering Patterns? *Anesthesiology* 71:34: A1188, 1989
2. **Roizen M, Macario A, Chmura J, Lichtor L, Soren A, Delisi M, Sabnis L, Thisted R., and Phelps C.** Change in Frequency of PreOp Test Ordering in Two Cities Over Time. *Anesthesia and Analgesia* 68:2S:S237, 1989
3. **Macario A, Brock-Utne J.** Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical Gauze Sponges. *Anesthesia and Analgesia* 76:2S:S232, 1993
4. **Hackel A, Macario A, Gregory G, Forseth D.** The Demographics of Inpatient Pediatric Anesthesia Practice: Implications For Performance Based Credentialing. *Anesthesiology* 79:3A:A1160, 1993
5. **Riley E, Cohen S, Macario A, Desai J, Ratner E.** Spinal Versus Epidural Anesthesia For Cesarean Section: Economic Implications. *Anesthesiology* 79:3A: A998, 1993
6. **Macario A, Gaeta R, Brodsky J, Mark J, Brock-Utne J.** A Randomized Clinical Trial Comparing Pain Outcomes After Lumbar Epidural Hydromorphone Versus Pleural Bupivacaine For Post-thoracotomy Analgesia. *Anesthesia and Analgesia* 80:S290, 1995
7. **Macario A, Dunn B, McDonald T, Vitez T.** What Does Perioperative Care Really Cost? Analysis of Hospital Costs and Charges for Inpatient Surgical Care. *Anesthesiology* A1270, 1995

8. **Macario A**, Brock-Utne J, Dillingham M, Fanton G. Postoperative Epidural Injection of Saline Hastens Time Ready for Discharge in Patients Undergoing Elective Knee Arthroscopy. *Anesthesiology* A13, 1995
9. Brose W, Angst M, **Macario A**, Harrapat S. Optimizing Treatment of Chronic Intractable Pain with Methadone: Empiric Oral Dosing Versus Computer Controlled Intravenous Titration. *Anesthesiology* A871, 1995
10. **Macario A**, Vitez T, Dunn B, McDonald T, Brown B. Severity of illness does not predict hospital costs for three types of elective surgery. *Anesthesiology* 85:A981, 1996
11. Hammer G, Pike N, Sulenski K, Bergman D, Krane E, Boltz G, Peterson K, **Macario A**, Robbins R, Reitz B. A critical pathway for the repair of atrial septal defects(ASD) reduces hospital costs and length of stay in children. (in press) Pediatric Intensive Care Society, 1996

Work Submitted or in Progress

1. **Macario A**, Vitez T, Horne M, Goodman S, Heinen R. Does a perioperative clinical pathway for knee replacement reduce hospital cost and length of stay?(manuscript in preparation), 1996
2. Vitez T, **Macario A**. Using statistical quality control to set performance standards for Anesthesia department services. (under review), 1996

revised 10/29/96

CURRICULUM VITAE

JOHN G BROCK-UTNE, M.A., M.B., B.Ch., (T.C.D.), MD, PhD. (Bergen), F.F.A. (SA)

Date of Birth : 1 December 1939
Place of Birth : Oslo, Norway
Nationality : Norwegian
Social Security : 556-49-8832

Office address : Department of Anesthesia
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Facsimile (415) 725-8544

Home address : 856 Allardice Way
Stanford, California 94305.
Telephone: (415) 494-6990
Facsimile (415) 856-4237

EDUCATION

1956-1960 Molde Gymnasium, Molde, Norway
1960 Norwegian Matriculation Certificate

NATIONAL SERVICE

1960-1962 Signal Corps Norwegian Army

MEDICAL EDUCATION

1962-1966 B.A., Trinity College, Dublin, Ireland
1966-1968 M.B., B.Ch., B.A.O., Trinity College, Dublin, Ireland

POSTGRADUATE EDUCATION AND PROFESSIONAL EXPERIENCE

1968-1969 Internship, Dr. Steven's Hospital, Dublin Ireland
1969 (Aug-Dec.) Registrar, Psychiatry, Neevengarden Hospital, University of Bergen, Bergen, Norway
1970 (Jan-June) General Practice, Sogndal, Norway
1970 (July-June) House Officer, Department of Anaesthetics, Rikshospitalet University of Oslo, Oslo, Norway
1971 (March) Registrar, Department of Anaesthetics, Rikshospitalet, University of Oslo, Oslo, Norway
1971 (Sept) Registrar, Department of Medicine, Addington Hospital, Durban, South Africa
1972 (March)-
1975 (Feb) Registrar, Department of Anaesthetics, King Edward VIII Hospital, Durban, South Africa

POSTGRADUATE QUALIFICATION

- 1969 M.D. (Candidate Medicine), Bergen, Norway
- 1969 E.C.F.M.G.
- 1969 M.A., Trinity College, Dublin, Ireland
- 1973 Fellow of the Faculty of Anaesthetists, South Africa (F.F.A. S.A.), Primary.
- 1974 Fellow of the Faculty of Anaesthetists, South Africa (F.F.A. S.A.), Finals.
- 1977 F.L.E.X., Part I and Part 2 in California
- 1981 PhD, Bergen, Norway

APPOINTMENTS

- 1975 (Feb) Consultant Anaesthetist, King Edward VIII Hospital, Durban, South Africa
- 1977 (Jan) Director of Anaesthetic Research, King Edward VIII Hospital, Durban, South Africa
- 1977 (Sept)-
- 1978 (Sept) Acting Assistant Professor, Department of Anesthesia, Stanford University School of Medicine, Stanford, California, U.S.A.
- 1978 (Sept) Principal Anaesthetist, Senior Lecturer and Director of Anaesthetic Research, King Edward VIII Hospital, University of Natal, Durban, South Africa
- 1981 (Jan) Professor & Head of Department of Physiology
Part-time Consultant, Department of Anaesthetics,
King Edward VIII Hospital, University of Natal, Durban, South Africa
- 1989 to present Professor of Anesthesia (Clinical), Stanford University School of Medicine, Stanford, California, U.S.A.

SCHOLARSHIPS AND AWARDS

1. Welland Pharmacology Prize - awarded by Trinity College Dublin 1965
2. Standard Bank South Africa, 1980 - Study on Hypertensive African patients.
3. "Best presentation" at Critical Care Society of Southern Africa, Annual Congress. May 1987, Port Elizabeth
4. "The Bunny Angorn" prize for best research paper at the Surgical Research Society of Southern Africa meeting (co-worker) (Abstract No. 117) 27 May 1988, Cape Town, South Africa.

MEDICAL LICENSURE

1. General Medical Council of Great Britain (Irish Branch) No. 1356238, 1 July 1969
2. Norway - 22 June 1970
3. South Africa No. 13001, 20 October 1970
4. Specialist Registration in Anaesthesia, South Africa No. 4329, 17 October 1975
5. North Dakota, U.S.A. No. 4035, 24 February 1978

6. California, U.S.A. No. A 32932, 18 September 1978
7. Specialist Registration in Anaesthesia, Norway - 26 September 1978

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Norwegian Medical Association
British Medical Association
South African Medical Association
California Medical Association
California Society of Anesthesiologists
American Society of Anesthesiologists
Association of University Anesthetist, U.S.A.

MEMBERSHIP IN COLLEGE/ACADEMY

The College of Medicine, Faculty of Anaesthetists, South Africa
- ordinary member from 1975 - to date
- council member from 1984-1989

COURSES ON MEDICAL EDUCATION AND RESEARCH

1. Organization of Teaching and Research in Anaesthesia.
British Council Course No. 028. Cardiff, Sheffield, London and
Oxford, United Kingdom. 11-23 May 1980.
2. Medical Education.
Dundee, Scotland. 7-14 September 1982.

COMMITTEE MEMBERSHIP, FACULTY OF MEDICINE, UNIVERSITY OF NATAL

1. Research Committee 1981 - 1984, 1986 - 1988.
2. Admissions Committee 1981 - 1988.
3. The Mary Weston Trust Committee 1981 - 1984. 1986.
4. Head of Committee, Electron Microscopy Unit Committee 1981 - 1986.
5. Academic Support and Staff Development Committee 1981 - 1986.

COMMITTEE MEMBERSHIP, STANFORD UNIVERSITY

1. Education Committee - Department of Anesthesia 1989 - to date
- Chairman from February 1993 to date
2. Resident Selection Committee - Department of Anesthesia 1989 - to date

REVIEWER TO EDITORIAL BOARDS

1. Anesthesiology 1978 to present
2. South African Medical Journal 1980 to present
3. Anesthesia Analgesia 1989 to present
4. Journal of Clinical Anesthesia 1990 to present
5. Journal of Clinical Monitoring 1991 to present

VISITING PROFESSOR

1. Department of Physiology/Anesthesia, Witwatersrand University
Nov./Dec. 1981, Johannesburg, South Africa
2. Department of Physiology/Anesthesia, Witwatersrand University
Nov./Dec. 1982, Johannesburg, South Africa
3. Department of Anesthesia, Bergen University
3-14 March 1983, Bergen, Norway.
4. Department of Anaesthesia
10-16 November 1983, University of Zimbabwe, Harare, Zimbabwe
5. Department of Physiology/Anesthesia, Witwatersrand University
Nov./Dec. 1983, Johannesburg, South Africa
6. Department of Physiology, Cape Town University
Nov./Dec. 1984, Cape Town, South Africa
7. Department of Physiology/Anesthesia, Witwatersrand University
Nov./Dec. 1985, Johannesburg, South Africa
8. Queensland Faculty of Anesthesiologists
5-12 August, 1985, Brisbane, Australia
9. Department of Anesthesia, Flinders University
13-16 August, 1985, Adelaide, Australia
10. Department of Anesthesia, Melbourne University
17 August, 1985, Melbourne, Australia
11. Department of Anesthesia, Perth University
19-22 August, 1985, Perth, Australia
12. Department of Physiology, Cape Town University
Nov./Dec. 1986, Cape Town, South Africa
13. Department of Physiology/Anesthesia, Witwatersrand University
Nov./Dec. 1987, Johannesburg, South Africa
14. Department of Anesthesia, University of Natal
3 July, 1992, Durban, South Africa.
15. Department of Anesthesia, University of Witwatersrand
12 July, 1992, Johannesburg, South Africa.

16. Department of Anesthesia, University of Natal
3-13 July, 1993, Durban, South Africa.
17. Department of Anesthesia, University of Yangon (Rangoon)
25 September-2 October, 1993 Yangon (Rangoon), Myanmar (Burma)
18. Olympic Games Lillehammer February, 1994
Invited by Norwegian Olympic Committee
To provide emergency anesthesia as an anesthesiologist at the Olympic Games.
To give lectures on Acute Anesthesia Management of Traumatic Sports Injuries
and Acute Post-operative Pain Management
Lillehammer Hospital, 12-27 February, 1994 Lillehammer, Norway
19. University of Oslo - Chairman Ph.D. Election Committee
16-17 November 1995 Oslo University, Oslo, Norway

EXAMINATION BOARD

Member of the Examination Board of the College of Medicine of South Africa
[FFA (SA)] 1980 - 1988.
Member of the Examination Board of M.Med degrees in the University of Natal.
1980 - 1988.

Department of Physiology, Cape Town University - 1984, 1986.

SOUTH AFRICAN (S.A.) MEDICAL RESEARCH COUNCIL

1. Work Committee on Research 1986
2. Ethical Committee for Institutes (Natal) 1986

RESEARCH GRANTS

1. S.A. Medical Research Council supported various research projects since 1978
and annually after 1980.
2. University of Natal Medical Research Grant given annually since 1978.

INVITED/VISITING LECTURER

1. The influence of three physiotherapy techniques on arterial oxygen tension and
alveolar pressure during mechanical ventilation.
South African Society of Anaesthetists
8-13 October 1974, Durban, South Africa
2. The effect of atropine on the gastro-esophageal sphincter tone in late pregnancy.
South African Society of Anaesthetists
8-14 October 1976, Port Elizabeth, South Africa.

3. Free fatty acids and arterial oxygen changes following major injury.
The Medical Association of South Africa Congress
10-16 April 1977, Bloemfontein, South Africa.
4. Tracheal soiling following the administration of 50% nitrous oxide and 50% oxygen. Termed relative analgesia.
The Medical Association of South Africa Congress
10-16 April 1977, Bloemfontein, South Africa.
5. Fasting gastric volume and acidity associated with gastro-intestinal symptoms.
The Medical Association of South Africa Congress
10-16 April 1977. Bloemfontein, South Africa.
6. The effect of commonly used antiemetics on the lower oesophageal sphincter.
The Medical Association of South Africa Congress
10-16 April 1977, Bloemfontein, South Africa.
7. Pharmacology of Local Anaesthetics. (New Concepts).
South African Society of Anaesthetists
25-30 September 1978, Cape Town, South Africa.
8. The effect of Domperidone on the Lower Oesophageal Sphincter in Man.
South African Society of Anaesthetists
25-30 September 1978, South Africa.
9. Acid Aspiration Syndrome.
Critical Care Symposium, 10 March 1979, Durban, South Africa.
10. The effect of ergometrine on the lower oesophageal sphincter at Caesarean section.
South African Surgical Research Society Meeting
11 May 1979, Durban, South Africa.
11. Pharmacokinetics and the Feto-Maternal Unit.
1st International Perinatal Symposium
26 May 1979, Durban, South Africa.
12. The effect of ergometrine on the lower oesophageal sphincter at Caesarean section.
52nd Congress of Medical Association of South Africa
19 July 1979, Durban, South Africa.
13. A performance evaluation of the Samson Anaesthetic paediatric set.
Association of University Anaesthetists Congress
27-29 September 1979, Bloemfontein, South Africa.

14. Prevention of the deleterious effect of atropine on the lower oesophageal sphincter (LOS) by metoclopramide.
Association of University Anaesthetists Congress
27-29 September 1979, Bloemfontein, South Africa.
15. Basic pharmacokinetics and the feto maternal unit.
Association of University Anaesthetists Congress
27-29 September 1979, Bloemfontein, South Africa.
16. Evaluation of Senior Anaesthetic staff by Housestaff.
British Council Course on organization of teaching and research
Royal College of Surgeons, 23 May 1980, London, England.
17. Does domperidone prevent the deleterious effects of atropine sulphate on the lower oesophageal sphincter (LOS)?
7th World Congress of Anaesthesiologists
16 September 1980, Hamburg, Germany.
18. Intrathecal saline and morphine sulphate with preservative. (Histological effects on the spinal nerve roots of baboons).
Physiology and Pharmacological Society Annual Meeting of South Africa
14-16 October 1981, Johannesburg, South Africa.
19. The Lower Oesophageal Sphincter and the Anesthetist.
Anesthesia Meeting, Department of Anesthesia, Bergen University
25 June 1981, Bergen, Norway
20. Das A.D.E. System: Ein neues koaxiales Anaesthesia-System.
Third International Symposium in Anaesthesia, Hyperalimentation & Intensive Care.
6-13 February 1982, Zürs, Austria.
21. WY 16225 (Dezocine) - ein Vergleich mit Morphin Zur Schmerzbekämpfung nach Eingriffen im Unterlauch.
Third International Symposium in Anaesthesia, Hyperalimentation & Intensive Care
6-13 February 1982, Zürs, Austria.
22. Midazolam for the intravenous induction of anaesthesia in children.
Sixth European Congress of Anaesthesiology, (p.270)
14 September 1982, London, England.
23. Trace element concentrations in commonly used intravenous fluids.
Physiological Society of Southern Africa Annual Congress
12-15 October 1982, Bloemfontein, South Africa.

24. Antiendotoxin antibodies cross the placenta.
Physiological Society of Southern Africa Annual Congress
12-15 October 1982, Bloemfontein, South Africa.
25. Erfahrungen mit der epiduralen ketaminanwendung
Fourth International Symposium in Anaesthesia, Hyperalimentation & Intensive
Care
12-19 March 1983, Zürs, Austria.
26. An evaluation of the Pulse Contour Method to measure cardiac output.
Critical Care Society of South Africa (6th Congress)
9-11 May 1984 Durban, South Africa.
27. Chronic pain, social and medical aspects.
Zimbabwe Medical Society meeting
Harare, Zimbabwe 14 November 1983
28. Nausea and vomiting in anesthetic practice.
Zimbabwe Society of Anesthetic Annual Meeting.
12 November 1983, University of Zimbabwe, Harare, Zimbabwe
29. Physiology of Nerve Conduction.
South African Society of Anaesthetists Congress
1-14 March 1985, Durban, South Africa.
30. The efficacy of Nalbuphine compared to Pethidine for post-operative pain
following orthopaedic surgery.
South African Society of Anaesthetists Congress
1-14 March 1985, Durban, South Africa.
31. Morphine concentration in brain and spinal cord following subarachnoid morphine
injection.
South African Society of Anaesthetists Congress
1-14 March 1985, Durban, South Africa.
32. Hypoxia causes temporary systemic endotoxaemia in primates.
South African Society of Anaesthetists Congress
1-14 March 1985, Durban, South Africa.
33. Septic shock
Toowomba Medical Association
5 August 1985, Toowomba Queensland, Australia
34. New concept of septic shock
Cairns Medical Association
6 August 1985, Cairns Queensland, Australia

35. New concept in septic shock
Townsville Medical Association
8 August 1985, Townsville, Queensland, Australia
36. The physiology and pharmacology of vomiting
Townsville Medical Association
9 August 1985, Townsville, Queensland, Australia
37. The physiology and pharmacology of vomiting.
The Queensland Faculty of Anaesthetists Annual Meeting
11 August 1985, Brisbane, Australia.
38. The lower oesophageal sphincter and the anaesthetist.
The Queensland Faculty of Anaesthetists Annual Meeting
10 August 1985, Brisbane, Australia.
39. The lower oesophageal sphincter and the anesthetist.
Anesthetic meeting, Flinders University
13 August 1985, Adelaide, Australia
40. Septic shock
Medical meeting, Flinders University
14 August 1985, Adelaide, Australia
41. Septic shock
Australian Society of Anesthesiology Meeting, Melbourne University
17 August 1985, Melbourne, Australia
42. New concept in septic shock
Medical meeting, Perth University
21 August 1985, Perth, Australia
43. The intraocular pressure and atracurium
2nd International Atracurium Symposium
2-5 October 1985, Montreux, Switzerland
44. The Non-respiratory functions of the lung.
South African Society of University Anaesthetists Congress
24-27 March 1986, Cape Town, South Africa.
45. Anaesthesia for Hypertensive Pregnant Women.
South African Society of University Anaesthetists Congress
24-27 March 1986, Cape Town, South Africa.
46. Diagnosis and Treatment of Anaphylaxis.
South African Society of University Anaesthetists Congress
24-27 March 1986, Cape Town, South Africa.

47. Hypoxia induces endotoxaemia in primates.
Aviation Space Medicine Congress, Bergendal
8-10 August 1986, Transvaal, South Africa.
48. Endotoxaemia during heat-stress.
Critical Care Society of Southern Africa Annual Congress
29 March - 3 April 1987, Port Elizabeth, South Africa.
(Awarded best presentation)
49. Cerebro-Spinal Fluid Pharmacokinetics of intraspinal morphine in primates.
European Society Regional Anaesthesia
23-25 September 1987, Dublin, Ireland.
50. Time course of LPS concentrations in bacteraemia, heat-stress and intestinal ischaemia in primates.
Critical Care Society of Southern Africa Annual Congress
25-27 April 1988, Johannesburg, South Africa.
51. Changes in lipopolysaccharide concentrations in Hepatic portal and systemic arterial plasma during intestinal ischemia in monkeys.
American Society of Anesthesiologists Annual Meeting
8-12 October 1988, San Francisco, California, U.S.A.
52. Predicting the difficult endotracheal intubation.
Anaesthetic Refresher Course. Department of Anaesthetics, University of Natal
5-6 November 1988, Durban, South Africa.
53. The critical volume in acid aspiration.
American Society of Anesthesiologists Annual Meeting
14-18 October 1989, New Orleans, Louisiana, U.S.A.
54. Rheumatology Perspectives - Anesthesia Considerations.
A postgraduate symposium. Fairchild auditorium, Stanford University
5 October 1991, Stanford, California, U.S.A.
55. New concept in septic shock.
Department of Anesthesia, Bergen University
25 June 1992, Bergen, Norway.
56. Problems in clinical anesthesia.
Department of Anesthesia, University of Natal
3 July 1992, Durban, South Africa.
57. Problems in clinical anesthesia.
Department of Anesthesia, University of Witwatersrand
12 July 1992, Johannesburg, South Africa.

58. The Laryngeal Mask and Acid Aspiration
California Society of Anesthesiologist Annual Meeting
22-24 May 1993, Monterey, California, U.S.A.
59. Endotoxaemia
Yangon Medical Association Meeting
29 September 1993, Yangon, Myanmar
60. a. Acute Post-Operative Pain Management
b. Laryngeal Mask Airway
c. Clinical Problems in Anesthetic Practice
12-27 February 1994, Lillehammer, Norway
61. Drawover Anesthesia
American Society of Anesthesiologists Annual Meeting
15-19 October 1994, San Francisco, California, U.S.A.
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